

Geographic Response Strategy GRS

Overview

1

Oil Spill Response

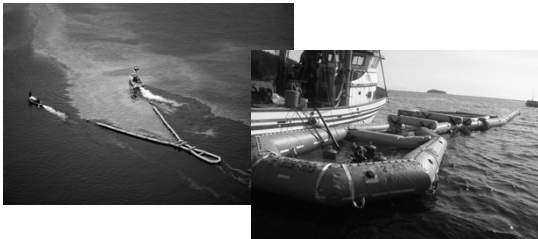
#1 -Stop and contain the oil at the source.



2

Oil Spill Response

#2 -Collect the oil on the water.

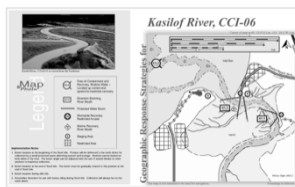


Oil Spill Response

#3 -Protect sensitive areas from impacts.
Geographic Response Strategies



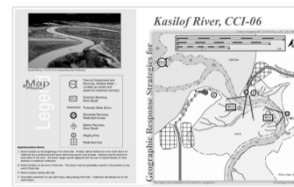
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**What is a
GRS ?**

- GRS are response tools that maybe utilized by an Incident Command or Responsible Party in the event of an oil spill.

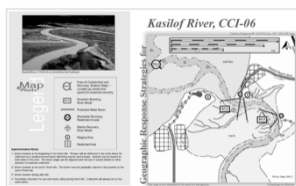
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**What is a
GRS ?**

- Shore-side and near shore response strategies for the protection of pre-selected sensitive areas.

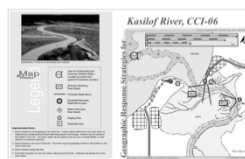
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What is a GRS?

- A consensus product of a planning effort involving trustee agencies, response agencies, spill responders, plan holders and the public. The workgroup.

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What is a GRS?

- Public document that is Part G of the State/Federal Subarea Plan.

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Work Group Membership

Oversight Agencies

USCG EPA
ADEC

Natural Resource Agencies

ADFG ADNR
DOI FWS NPS
NOAA NMFS USFS
MMS

Response Organizations

Alaska Chadux

CISPRI

SERVS

SeaPro

C-plan Holders

Local Governments

Tribal Organizations

Citizen Advisory Councils

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Guiding Principles

Primary

- **Responder-oriented strategies and techniques to protect sensitive areas.**
- **Strategies should be flexible and modifiable to fit the prevailing conditions.**
- **No unnecessary duplication of information in other plans.**

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Guiding Principles

Primary

- **Identifies resources at risk and set priorities for their protection.**
- **The documents specify required response resource, logistical information, and field instructions for deployment.**
- **Easy to use, test and update.**
- **Content more important than form.**

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Guiding Principles

Secondary

- **Increase public awareness of response plans prior to a spill**
- **Low maintenance cost and time**
- **Low unit cost**
- **Incident Command System friendly**

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Document Organization

Part 1 Introduction

Part 2 Geographic Response Strategies

Part 3 References

Format

- 11 x 17 for responders
- Color Maps and Photos
- Expandable at later date
- One page (both sides) per site
- Simple presentation of information

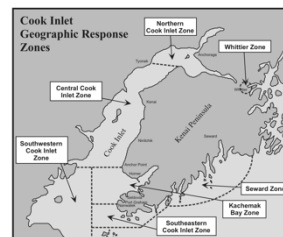
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Part 1 Introduction

- Purpose and Scope
- How to Use This Document
- STAR Manual- “Spill Tactics for Alaska Responders”
- Who to Contact for Input
- How the Document Was Developed
- Zone Map
- Site Selection Matrix

Zone Map



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Part 2 Geographic Response Strategies

Index Map to Sites

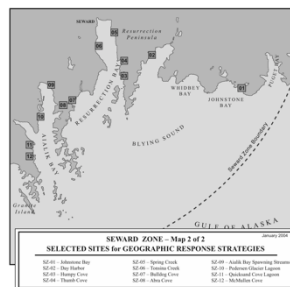
Legend

Geographic Response Strategies

Site Map, Picture, Notes

Table - Location, Description, Implementation,
Response Resources, Staging, Access,
Resources Protected, Special Considerations

Index Map

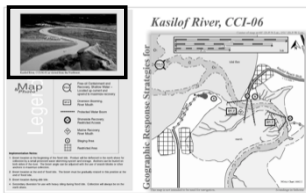


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Geographic Response Strategy

Map Page



Scenario	Response Strategy	Location	Notes
Oil Spill at Kaslof River Mouth	Free-oil Containment and Recovery, Shallow Water	Up current and upwind to maximize recovery.	
Oil Spill at Kaslof River Mouth	Diversion Booming, River Mouth		
Oil Spill at Kaslof River Mouth	Protected Water Boom		
Oil Spill at Kaslof River Mouth	Shoreline Recovery, Restricted Access		
Oil Spill at Kaslof River Mouth	Marine Recovery, River Mouth		
Oil Spill at Kaslof River Mouth	Staging Area		
Oil Spill at Kaslof River Mouth	Restricted Area		

Table Page

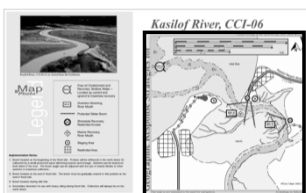
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Map Page - Photo



Geographic Response Strategy

Map Page

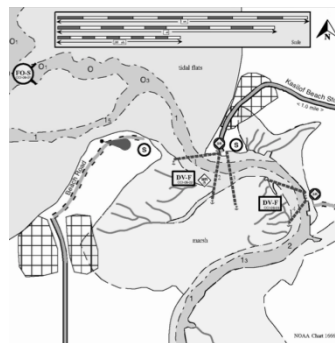


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Table Page

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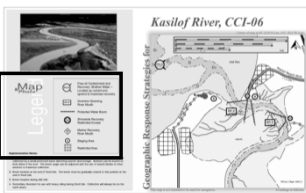
Map Page - Tactics Map



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Geographic Response Strategy

Map Page

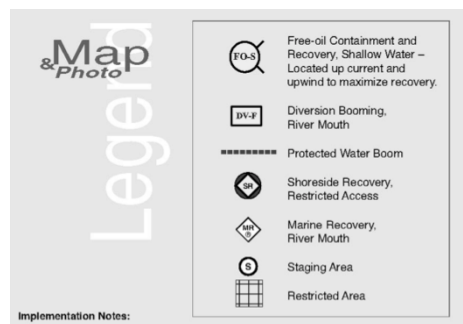


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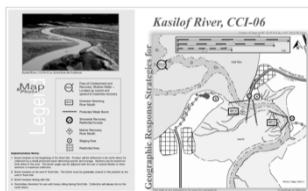
Map Page - Legend



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Geographic Response Strategy

Map Page



ID	Location and Description	Response Strategy	Implementation
CCI-06-01	Kasilof River Nearshore waters in the general area of: Lat. 60° 23.8 N Lon. 151° 20.3 W	<ul style="list-style-type: none"> Maximize on-water recovery in the offshore & nearshore environment / outside the mudflats. 	Deploy nearshore strike teams upwind and up current of the river mouth. Use aerial surveillance to locate incoming oil.
CCI-06-02	Kasilof River Lat. 60° 23.13 N Lon. 151° 17.87 W 2.5 nm. north of Cape Kasilof on east side of Cook Inlet River Channel <ul style="list-style-type: none"> entrance marked by lighted buoy (May - November). not navigable at low tide. strong currents. narrow and winding. boats & 6' can navigate in river from entrance to 6 mi. upstream. 	<ul style="list-style-type: none"> Divert spilled product to designated collection sites Recover spilled product at designated collection sites. Seasonal Restriction River ice-in/not navigable from approximately November to April.	Place 1,000 ft. of diversion boom and collect product with an on-shore and/or marine collection unit.

Table Page

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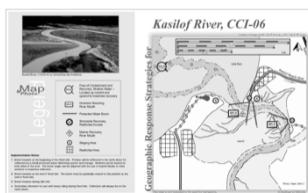
Cook Inlet Geographic Response Strategies

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Geographic Response Strategy

Map Page



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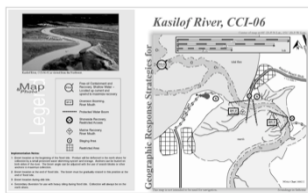
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Location	Response Resources	Staging Area	Site
shore strike d and up : river aerial to locate	Multiple nearshore free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Kasilof Harbor or Kenai Harbor	Via marine See NOAA 16661-1, 16662-2.
il. of on and ct with an /or marine it.	Equipment 5 ea. 200 ft. river boom units 2 ea. protected water skimmer 600 ft. 2" discharge hose 2 ea. on-shore storage unit 12 ea. 40 lb. anchor systems 1 ea. marine storage unit 2000 ft. line Support 3 ea. vessel class #5/6 1 ea. truck 1 ea. truck with trailer 1 ea. shelter 2 ea. ATV/trailers 2 ea. ATVs	North shore: <ul style="list-style-type: none"> Services - crane, boat launch, electric power, heavy equipment access Security - none. Support - shelter. South shore: <ul style="list-style-type: none"> Private land off Coho Loop Service - none. Security - none. Support - shelter 	FOSC Historic Properties should IN prior to e FOSC Historic Properties permit max to work in Contact E Unit of the Command North sho Kalifornski to Kasilof ends at be

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Geographic Response Strategy

Map Page



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December 2001

Area	Site Access	Resources Protected (months)	Special Considerations
Kenai	Via marine waters. See NOAA Charts 16661-1, 16662-1 or 16662-2.	Same as CCI-06-02.	Strong tidal currents, shoal waters and rocks. Vessel master should have local knowledge.
boat launch, easy s	FOSC Historic Properties Specialist should INSPECT site prior to operations. FOSC Historic Properties Title 16 permit may be required to work inside river. Contact Environmental Unit of the Unified Command for permit.	<ul style="list-style-type: none"> Tidal marshes (all year) Salmon migration and spawning (May - October) Intertidal salmon spawning (July - September) Waterfowl and shore bird concentrations (May - September) 	<ul style="list-style-type: none"> Very difficult and unsafe to protect exposed tidal flats outside river mouth. Working on banks of the river should be no problem. Take care not to work or walk on oiled shoreline, to avoid driving oil into the soils. Access above intertidal area will have to be resolved with landowners before setting anchors or staging areas.
Coho Loop	North shore: Kalifornski Beach Road to Kasilof Beach Road.	<ul style="list-style-type: none"> Fishing (July - September) 	

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Section 3 References

Sensitive Areas
Land Ownership
Equipment/Tactics

Site Selection Process: Criteria for Site Selection



Environmental Sensitivity

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Criteria for Site Selection



Risk of Oil Spill Impact

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Criteria for Site Selection



Ability to Protect the Site

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Identify Candidates Sites:

Develop Site Selection Matrix (SSM)

Columns - Priority Criteria From Area Plan

Rows – Potential Sites

Site #	Location	Priority	Latitude	Longitude	Marine Mammals	Fish	Subsistence	Cultural Resources	Birds	Recreation	Commercial Use	Land Mgt.	Coastal Habitat
1	Queen Point	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
2	Head of Pigeon Bay	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
3	Cape Jordan	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
4	Cape Jordan	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
5	Widby Bay	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
6	Horseshoe Bay	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
7	Head of Day Harbor-East	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
8	Head of Day Harbor-West	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0
9	Day Harbor NW Stream	High	49°18.30'N	124°18.30'W	0	0	0	0	0	0	0	0	0

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Key to Site Selection Matrix

Marine Mammals	Fish	Birds	Coastal Habitat	Cultural Resources	Subsistence	Recreational Use	Commercial Fishing	Land Management
0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration	0 = No other concentration 1 = High concentration 2 = Moderate concentration 3 = Low concentration
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Index Map of Candidate Sites



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Site Selection Process

Initial Selection by Workgroup

Public Input Process

Resource Maps, SSM posted to the website and opened to the public and workgroup for input/comments.

Outreach to organizations and resource agencies to confirm resource location.

Finalized Site Selection after Public Input

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Tactics Group

Gather Additional Information on Sites

- Maps, Charts
- Photos
- Sensitive Resources
- Local Knowledge

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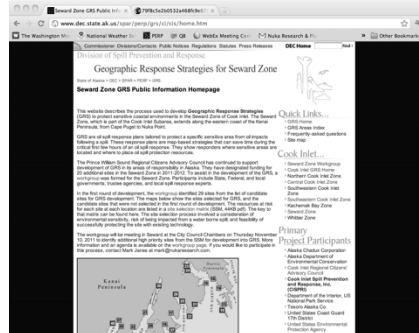
Tactics Group

Survey team visits each site when possible

Larger tactics group reviews and edits tactics for each site



Draft GRS posted to the web page for WG review



<http://www.dec.state.ak.us/spar/perp/grs/ci/cis/home.htm>

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Questions ?



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